

# Comparisons of Job Characteristics

**Focus Occupation:** Life, Physical, and Social Science Technicians, All Other (19-4099)

**Associated Occupation:** Chemists (19-2031)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 61

**Focus Occupation:** Life, Physical, and Social Science Technicians, All Other (19-4099)

**Associated Occupation:** Chemists (19-2031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Chemistry	4.8	21.8	9.3	<<	Extensive education and/or training may be required
Mathematics	9.2	17.0	12.8	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	13.6	15.0	>	Current knowledge level is likely sufficient
Production and Processing	6.0	11.3	8.5	<<	Extensive education and/or training may be required
Physics	4.3	9.1	5.9	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 79

**Focus Occupation:** Life, Physical, and Social Science Technicians, All Other (19-4099)

**Associated Occupation:** Chemists (19-2031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Science	4.5	17.3	9.0	<<	Extensive development of skills in this area may be required
Reading Comprehension	10.7	15.7	12.0	<<	Extensive development of skills in this area may be required
Complex Problem Solving	9.1	12.3	9.7	<	A higher skill level may be required
Mathematics	6.2	11.4	9.0	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 96			
Focus Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099) Associated Occupation: Chemists (19-2031)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	15.9	13.0	<	Some improvement in abilities may be required
Written Comprehension	11.0	14.9	12.2	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	13.8	11.8	<	Some improvement in abilities may be required
Category Flexibility	9.0	13.6	10.7	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	13.6	12.0	<	Some improvement in abilities may be required
Near Vision	11.1	13.5	11.9	<	Some improvement in abilities may be required
Information Ordering	9.9	12.8	11.1	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	12.2	10.1	<	Some improvement in abilities may be required
Number Facility	6.3	11.9	8.8	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	10.7	9.7	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	9.6	8.3	<	Some improvement in abilities may be required
Memorization	5.6	7.9	7.3	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 64
Focus Occupation: Life, Physical, and Social Science Technicians, All Other (19-4099) Associated Occupation: Chemists (19-2031)		
Tools and Technologies	Exclusivity	
Business function specific software	1	
Cameras	2	
Computer printers	2	
Computers	1	

Content authoring and editing software	1
Crystallography equipment	23
Data management and query software	1
Development software	4
Electrochemical measuring instruments and accessories	9
Geophysical and geotechnical instruments	23
Indicating and recording instruments	2
Industry specific software	1
Light and wave generating and measuring equipment	4
Network applications software	1
Spectroscopic equipment	10

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.